

## IN THE CLAIMS

Please amend the claims as follows:

1 (original) An information carrier comprising:

- a diffractive layer made of photopolymers, for delivering a speckle pattern when illuminated by a light source,
- a spatial filtering layer including a binary mask made of a photosensitive material, for delivering a filtered optical signal from the speckle pattern, said spatial filtering layer being aligned with respect to the diffractive layer, and
- a detection layer for transforming said filtered optical signal into an electrical signal, from which a cryptographic key is generated.

2 (original) An information carrier as claimed in claim 1, wherein the detection layer is made of a patterned photoelectric material.

3 (original) An information carrier as claimed in claim 1, further comprising a spacer for separating the diffractive layer from the spatial filtering layer, said spacer having a width which is larger than the wavelength of the light source and smaller than the width of the diffractive layer.

4 (original) A device for reading an information carrier as claimed in claim 1, said device comprising:

- means for computing a cryptographic key from the electrical signal delivered by the detection layer, and
- means for decrypting encrypted data contained in the information carrier based on the cryptographic key.

5 (original) An information carrier comprising:

- a diffractive layer made of photopolymers, for delivering a speckle pattern when illuminated by a light source, and
- a spatial filtering layer including a binary mask made of a photosensitive material, for delivering a filtered optical signal from the speckle pattern, said spatial filtering layer being aligned with respect to the diffractive layer.

6 (original) An information carrier as claimed in claim 5, further comprising a spacer for separating the diffractive layer from the spatial filtering layer, said spacer having a width which is larger than the wavelength of the light source and smaller than the width of the diffractive layer.

7 (original) A device for reading an information carrier as claimed in claim 5, said device comprising:

- a detector array for transforming the filtered optical signal into an electrical signal,
- means for computing a cryptographic key from said electrical signal, and
- means for decrypting encrypted data contained in the information carrier from the cryptographic key.

8 (original) A device as claimed in claim 1, wherein the detector array is made of a patterned photoelectric material.

9 (original) A device for reading an information carrier comprising a diffractive layer for delivering a speckle pattern when illuminated by a light source, said device comprising:

- a spatial filter for delivering a filtered optical signal from the speckle pattern, said spatial filter including a binary mask made of a reversible photosensitive material such that said binary mask is created every time an information carrier is inserted into said device,
- a detector array for transforming the filtered optical signal into an electrical signal,
- means for computing a cryptographic key from said electrical

signal, and

- means for decrypting encrypted data contained in the information carrier from the cryptographic key.

10 (currently amended) A method of manufacturing an information carrier as claimed in claim 1-~~or~~5, said method comprising the steps of:

- holographic exposing a layer of photopolymer so as to create a diffractive structure,
- illuminating at the same time said photopolymer layer so as to polymerize said diffractive structure, and a layer made of photosensitive material through the diffractive structure so as to form a spatial filter having a binary mask including activated and non-activated areas, an activation of said photosensitive material being performed when an intensity of a speckle pattern delivered by the diffractive structure for a given wave front of the light source is higher than a predetermined threshold.